

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-28 (cancelled).

Claim 29. (previously presented) A cell-free cartilage membrane, comprising at least one surface part carrying a composition comprising at least one stimulation molecule, which induces a signal transduction in chondroblasts/chondrocytes and which is selected from the group consisting of collagen proteins, proteoglycans, and non-collageneous proteins.

Claim 30. (previously presented) A cell-free cartilage membrane according to claim 29, wherein the collagen protein is selected from the group consisting of collagen types II, VI, IX and XI, the proteoglycan is selected from the group consisting of aggrecans, decorin, fibromodulin and biglycan, and the non-collageneous protein is selected from the group consisting of cryoprecipitate, fibronectin, vitronectin, fibrinogen, fibrillin, kistrin, echistatin, von Willebrand factor, tenascin and anchorin CII.

Claim 31. (previously presented) A cell-free cartilage membrane according to claim 29, which is a non-immunogenic, non-toxic, biodegradable membrane.

Claim 32. (previously presented) A cell-free cartilage membrane according to claim 29, wherein the membrane material is porous or substantially porous.

Claim 33. (previously presented) A cell-free cartilage membrane according to claim 32, wherein the membrane is a natural or synthetic collagen type I membrane or part thereof.

Claim 34-38 (cancelled).

Claim 39. (previously presented) A cell-free cartilage membrane according to claim 29 [or 34], wherein the stimulation molecule comprises at least one RGD motif.

Claim 40. (previously presented) A cell-free cartilage membrane according to claim 39, wherein the stimulation molecule is a natural or synthetic protein or peptide or a fusion or mixture thereof.

Claim 41. (previously presented) A cell-free cartilage membrane according to claim 40, wherein the stimulation molecule is selected from the group consisting of collagen type II and fibronectin.

Claim 42. (previously presented) A cell-free cartilage membrane according to claim 41, wherein the stimulation molecule is attached to a support.

Claims 43-51 (cancelled).

Claim 52. (previously presented) A kit for cartilage repair comprising a cell-free cartilage membrane comprising at least one surface part carrying a composition comprising at least one stimulation molecule which induces a signal transduction in chondroblasts/chondrocytes and which is selected from the group consisting of collagen proteins, proteoglycans and non-collageneous proteins.

Claims 53-57 (cancelled).